

FIG. 1

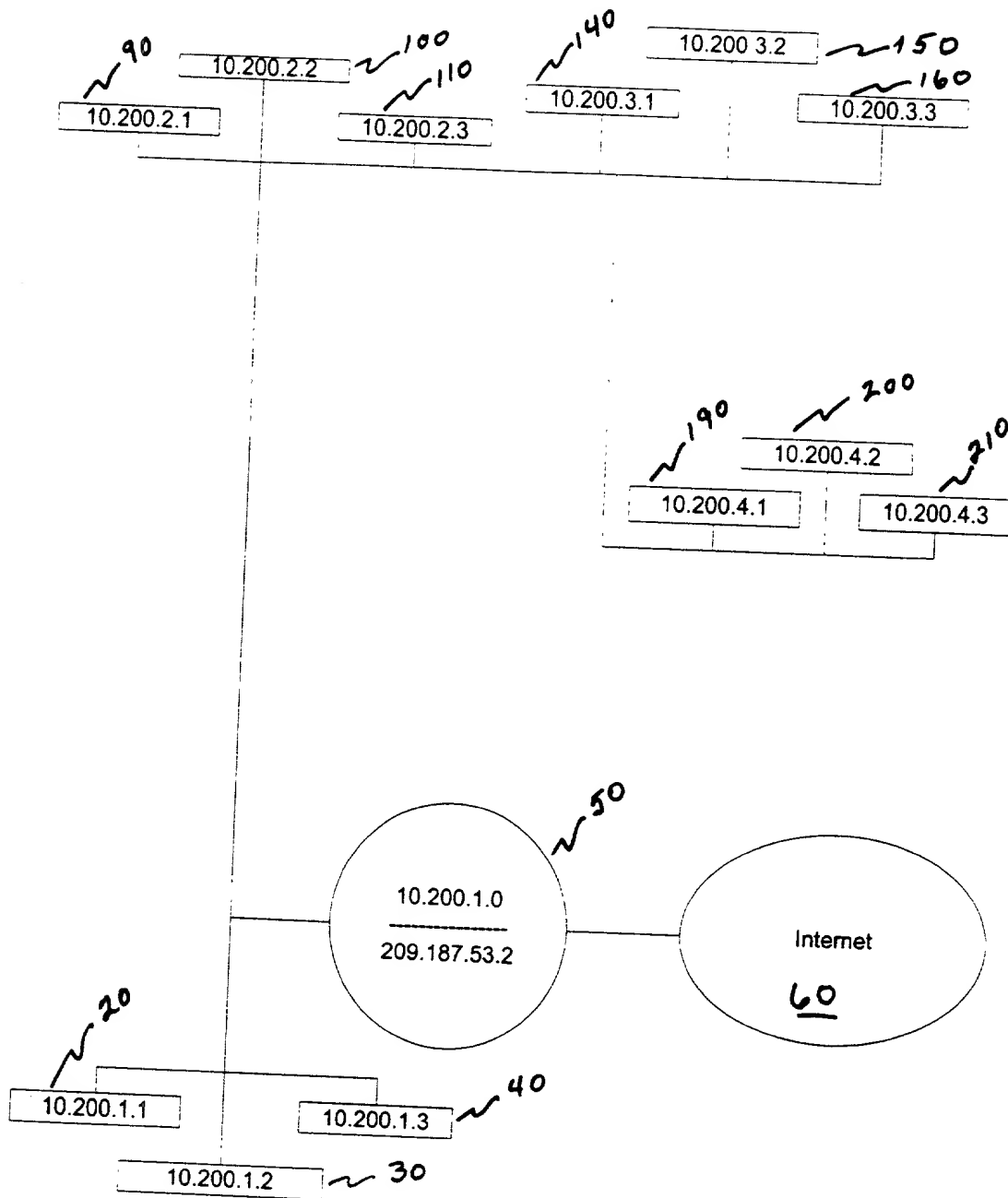


FIG. 2

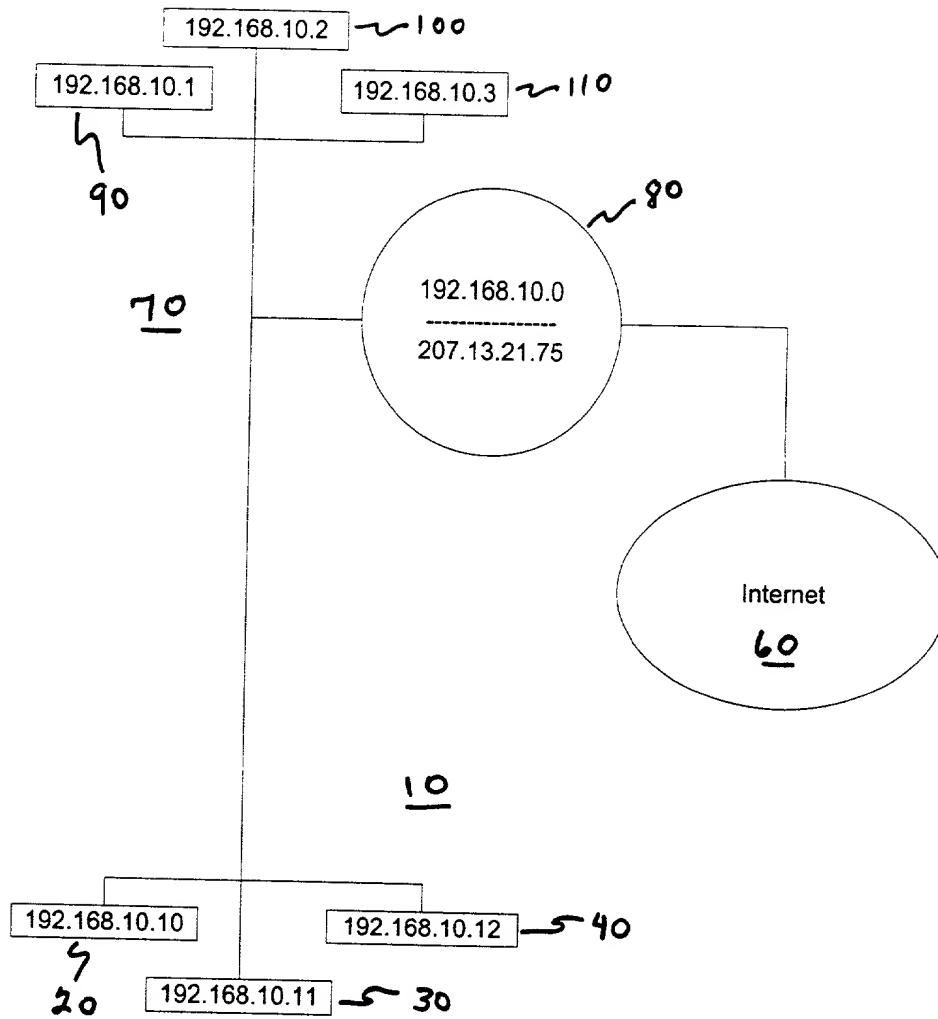


FIG. 3

Network Address Scheme

		Actual LAN IP Addresses	Virtual LAN IP Addresses on Network A	Virtual LAN IP Addresses on local LAN	Internet IP Addresses (Global)
10	~	Network A	10.200.1		
50	~	NAT-Router A	10.200.1.0		209.187.53.2
20	~	Host 1	10.200.1.1		
30	~	Host 2	10.200.1.2		
40	~	Host 3	10.200.1.3		
70	~	Network B	192.168.10	10.200.2	
80	~	NAT-Router B	192.168.10.0	10.200.2.0	207.13.21.75
90	~	Host 4	192.168.10.1	10.200.2.1	
100	~	Host 5	192.168.10.2	10.200.2.2	
110	~	Host 6	192.168.10.3	10.200.2.3	
		Host 1		192.168.10.10	
		Host 2		192.168.10.11	
		Host 3		192.168.10.12	
120	~	Network C	192.168.10	10.200.3	
130	~	NAT-Router C	192.168.10.0	10.200.3.0	210.212.3.25
140	~	Host 7	192.168.10.1	10.200.3.1	
150	~	Host 8	192.168.10.3	10.200.3.2	
160	~	Host 9	192.168.10.8	10.200.3.3	
		Host 1		192.168.10.25	
		Host 2		192.168.10.26	
		Host 3		192.168.10.27	
170	~	Network D	10.200.4	10.200.4	
180	~	NAT-Router D	10.200.4.0	10.200.4.0	198.242.20.5
190	~	Host 10	10.200.4.1	10.200.4.1	
200	~	Host 11	10.200.4.2	10.200.4.2	
210	~	Host 12	10.200.4.3	10.200.4.3	
		Host 1		10.200.1.1	
		Host 2		10.200.1.2	
		Host 3		10.200.1.3	

FIG. 4

## Translation Tables

Network A				
	10.200.1	10.200.2	10.200.3	10.200.4
Host 1	10.200.1.1	192.168.10.10	192.168.10.25	10.200.1.1
Host 2	10.200.1.2	192.168.10.11	192.168.10.26	10.200.1.2
Host 3	10.200.1.3	192.168.10.12	192.168.10.27	10.200.1.3

Network B		
	192.168.10	10.200.1
Host 4	192.168.10.1	10.200.2.1
Host 5	192.168.10.2	10.200.2.2
Host 6	192.168.10.3	10.200.2.3

Network C		
	192.168.10	10.200.1
Host 7	192.168.10.1	10.200.3.1
Host 8	192.168.10.3	10.200.3.2
Host 9	192.168.10.8	10.200.3.3

Network D		
	10.200.4	10.200.1
Host 10	10.200.4.1	10.200.4.1
Host 11	10.200.4.2	10.200.4.2
Host 12	10.200.4.3	10.200.4.3

FIG. 5

# ADDRESS TRANSLATION IN IP PACKETS

		Routing		Sending	Sending	Receiving	Tunnel
		Sending	Receiving	Host	NAT-Router	NAT-Router	Routing
220 ~	Source	Host 1		10.200.1.1	192.168.10.10	192.168.10.10	209.187.53.2
	Destination	Host 5		10.200.2.2	10.200.2.2	192.168.10.2	207.13.21.75
230 ~	Source	Host 5		192.168.10	10.200.2.2	10.200.2.2	207.13.21.75
	Destination	Host 1		192.168.10	192.168.10.10	10.200.1.1	209.187.53.2
240 ~	Source	Host 2		10.200.1.2	192.168.10.26	192.168.10.26	209.187.53.2
	Destination	Host 7		10.200.3.1	10.200.3.1	192.168.10.1	210.212.3.25
250 ~	Source	Host 7		192.168.10	10.200.3.1	10.200.3.1	210.212.3.25
	Destination	Host 2		192.168.10	192.168.10.26	10.200.1.2	209.187.53.2
260 ~	Source	Host 3		10.200.1.3	10.200.1.3	10.200.1.3	209.187.53.2
	Destination	Host 12		10.200.4.3	10.200.4.3	10.200.4.3	198.242.20.5
270 ~	Source	Host 12		10.200.4.3	10.200.4.3	10.200.4.3	198.242.20.5
	Destination	Host 3		10.200.1.3	10.200.1.3	10.200.1.3	209.187.53.2
280 ~	Source	Host 2		10.200.1.2	192.168.10.11	192.168.10.11	209.187.53.2
	Destination	Host 4		10.200.2.1	10.200.2.1	192.168.10.1	207.13.21.75
290 ~	Source	Host 4		192.168.10	10.200.2.1	10.200.2.1	207.13.21.75
	Destination	Host 2		192.168.10	192.168.10.11	10.200.1.2	209.187.53.2

FIG. 6

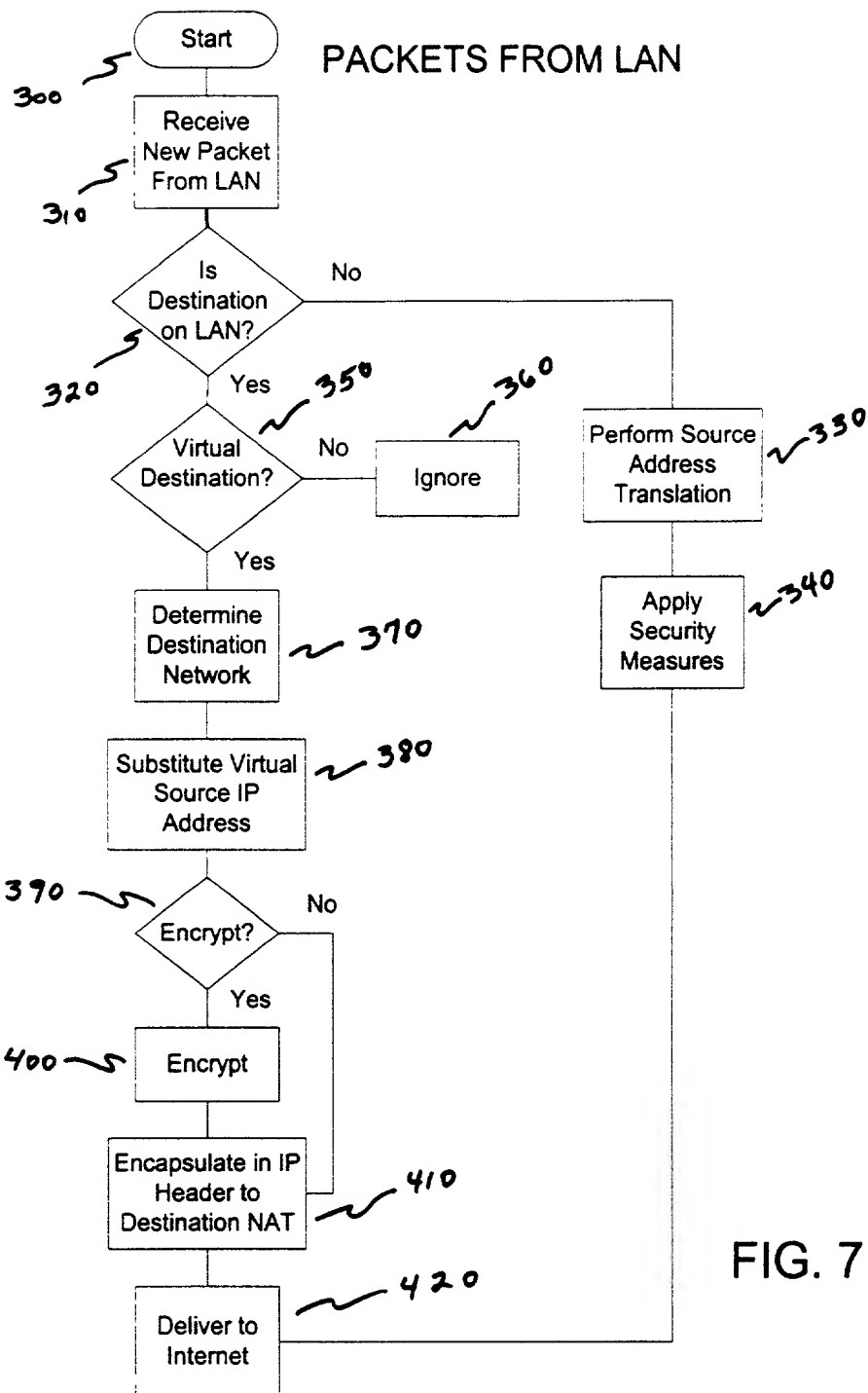


FIG. 7

# PACKETS FROM INTERNET

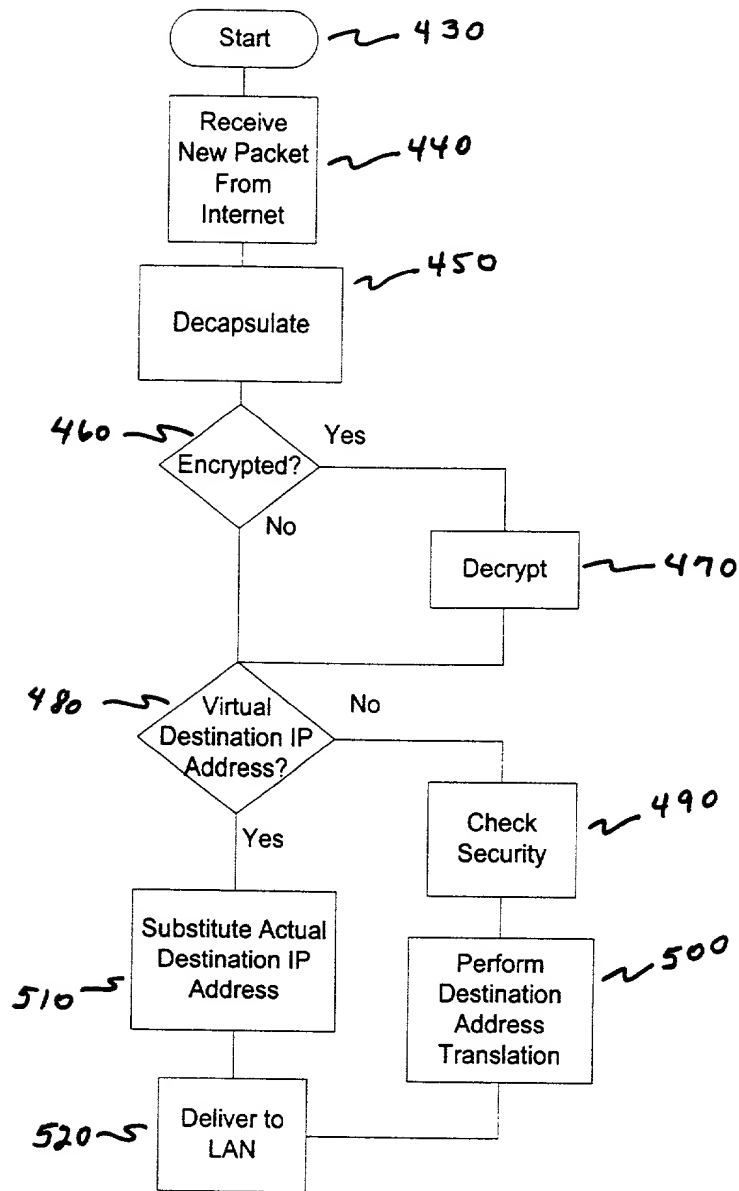


FIG. 8